



RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 09/980,845B
Source: IFW16
Date Processed by STIC: 3/22/06

ENTERED



IFW16

RAW SEQUENCE LISTING

DATE: 03/22/2006

PATENT APPLICATION: US/09/980,845B

TIME: 09:27:50

Input Set : D:\00-505 ST25.txt

Output Set: N:\CRF4\03222006\I980845B.raw

3 <110> APPLICANT: Handfield, Martin
 4 Brady, Jeannine
 5 Progulske-Fox, Ann
 6 Hillman, Jeffrey D.
 8 <120> TITLE OF INVENTION: Microbial Polynucleotides Expressed During Infection of a
 Host
 10 <130> FILE REFERENCE: 00-505B
 12 <140> CURRENT APPLICATION NUMBER: 09/980,845B
 C--> 13 <141> CURRENT FILING DATE: 2001-11-15
 15 <150> PRIOR APPLICATION NUMBER: 60/147,551
 16 <151> PRIOR FILING DATE: 1999-08-06
 18 <160> NUMBER OF SEQ ID NOS: 20
 20 <170> SOFTWARE: PatentIn version 3.3
 22 <210> SEQ ID NO: 1
 23 <211> LENGTH: 849
 24 <212> TYPE: DNA
 25 <213> ORGANISM: Actinobacillus actinomycetemcomitans
 28 <220> FEATURE:
 29 <221> NAME/KEY: misc_feature
 30 <222> LOCATION: (566)..(566)
 31 <223> OTHER INFORMATION: N stands for any nucleotide.
 33 <220> FEATURE:
 34 <221> NAME/KEY: misc_feature
 35 <222> LOCATION: (625)..(625)
 36 <223> OTHER INFORMATION: N stands for any nucleotide.
 38 <220> FEATURE:
 39 <221> NAME/KEY: misc_feature
 40 <222> LOCATION: (627)..(627)
 41 <223> OTHER INFORMATION: N stands for any nucleotide.
 43 <220> FEATURE:
 44 <221> NAME/KEY: misc_feature
 45 <222> LOCATION: (636)..(636)
 46 <223> OTHER INFORMATION: N stands for any nucleotide.
 48 <220> FEATURE:
 49 <221> NAME/KEY: misc_feature
 50 <222> LOCATION: (650)..(650)
 51 <223> OTHER INFORMATION: N stands for any nucleotide.
 53 <220> FEATURE:
 54 <221> NAME/KEY: misc_feature
 55 <222> LOCATION: (656)..(656)
 56 <223> OTHER INFORMATION: N stands for any nucleotide.
 58 <220> FEATURE:
 59 <221> NAME/KEY: misc_feature
 60 <222> LOCATION: (661)..(661)

(pg. 6)

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DATE: 03/22/2006

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Input Set : D:\00-505 ST25.txt

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61 <223> OTHER INFORMATION: N stands for any nucleotide.
63 <220> FEATURE:
64 <221> NAME/KEY: misc_feature
65 <222> LOCATION: (672)..(672)
66 <223> OTHER INFORMATION: N stands for any nucleotide.
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69 <221> NAME/KEY: misc_feature
70 <222> LOCATION: (681)..(681)
71 <223> OTHER INFORMATION: N stands for any nucleotide.
73 <220> FEATURE:
74 <221> NAME/KEY: misc_feature
75 <222> LOCATION: (720)..(720)
76 <223> OTHER INFORMATION: N stands for any nucleotide.
78 <220> FEATURE:
79 <221> NAME/KEY: misc_feature
80 <222> LOCATION: (723)..(723)
81 <223> OTHER INFORMATION: N stands for any nucleotide.
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86 tggtcggttc gtccagaata tacagggttt tgcccgtatc ccgtttggag agttccgtcg      120
88 ccagtttcac ccgttgcgct tccccgccgg acagggtggt agaggattgc cccaagcgaa      180
90 tataagacaa gcccacgtca atcagggttt gcaatttacg cgcaatcatt ggaatggcat      240
92 cgaaaaactc gcgcgcatct tccaccgtca tgtccagcac ctgatgaatg gttttacctt      300
94 tgtagcggat ttccagggtt tcgcgattgt aacgcttgcc tttacattgg tcgcaaggca      360
96 cgtacacatc gggcaggaag tgcatttcca ctttgattac gccgtcgccc tggcaggctt      420
98 acagcgcccg ccgcgcacgt taaaactgaa acgccccggg ttataaccgc gcgcacgggc      480
100 tttcgggtacg ccggcaaaaca attcgcgaat cggcgtgaat acgcccgtgt aagttgccccg      540
W--> 102 gttggagcgt ggcgtgcgtc caatcnggct ttgggttaata tcaatacttt atcgaaaaat      600
104 tccaaacctt taatggactt gtacngngaa acctcngcat tttctgcacn attaangcgt      660
106 nttgtgcaat anggaacaaa ntgtcgttaa tcagtgtaga atttacctta accggacacn      720
108 ccngtgatgc aggtaaataa gcccacggga atgtctaaat tgacgttttt caggttggtta      780
110 ccggaagcgc cgaacaattt gagcattttt ttcttatcaa gtgcggtacg ttttttcggg      840
112 atttcgatc      849
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116 <211> LENGTH: 357
117 <212> TYPE: DNA
118 <213> ORGANISM: Actinobacillus actinomycetemcomitans
120 <400> SEQUENCE: 2
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123 cattgcgtta acgtctaaat cacctttaga cactgcagtg tttggcaagg cgtagtcatg      120
125 aataaaacgt attctacgtc taagttgtat ttttcttttg ccactttcgc tgcgatttca      180
127 gccacttggt gttccgggtc tgccatcacg cccactttga ttgttgccgg ggcttctgcc      240
129 gccggtttgt ctgccggtgc ggcttccggg tttttctctt cattacaagc ccgttaaggc      300
131 gaatacggag gctaattgtt cgacgcctaa taattttttt caagttcata aaagatc      357
134 <210> SEQ ID NO: 3
135 <211> LENGTH: 886
136 <212> TYPE: DNA
137 <213> ORGANISM: Actinobacillus actinomycetemcomitans
140 <220> FEATURE:

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Input Set : D:\00-505 ST25.txt

Output Set: N:\CRF4\03222006\I980845B.raw

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141 <221> NAME/KEY: misc_feature
142 <222> LOCATION: (554)..(554)
143 <223> OTHER INFORMATION: N stands for any nucleotide
145 <220> FEATURE:
146 <221> NAME/KEY: misc_feature
147 <222> LOCATION: (596)..(596)
148 <223> OTHER INFORMATION: N stands for any nucleotide
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153 gcgcgtcggc aacggcatgg tagggcgacg ccgtggttta aaccaagcca aagcggaatg      120
155 gcgcttattt aagctaaaac accatcttgg cattcagggg tttttatccg ggctattcac      180
157 ttttgctctg cgttccggtg ccagattatt gccgacatca ttactgaaaa acatctatca      240
159 aaccttttta agaaaataac atgatgaaat taaactgtat tttaaaaata tccggaattt      300
161 ccaccgcact ttttctagcg ggttggtcct caaattcaag tgcgccgacg caatcctctg      360
163 agcaggcgaa ttctgttacg gctgtgaatc ccaactgcgt gtacagtaag ccccgcaact      420
165 tggataactt caacgattat gtgaatttct taaaaggtaa agcagcggca gaaggcgttt      480
167 ctgccgacgt attgaatgca caaaataata ttaattatat tcaaaaatcc gtggatttgg      540
W--> 169 acgatcaaca agcnggcaga attcgcaagc gtgatccaaa tgccccgcgc atcatnaatt      600
171 ccgaacggca cgaccaatta cttaaatcgt gtattaacca agaataaagt agacacggca      660
173 gaagcacggt attgggaaca attgccgcag cttgaaaatg cttcaaagaa attcagcgta      720
175 ccgaaaaatt atctgttagc cttgtggggc atggagagta gctttggcta ttatcagggc      780
177 aattacgatg tgttatccac cttagccact cttgcttttg acggacgccg tgaagcctta      840
179 ttcagcaaag aattcatcgc cgccatgaaa atgctacagc gcgatc      886
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183 <211> LENGTH: 507
184 <212> TYPE: DNA
185 <213> ORGANISM: Actinobacillus actinomycetemcomitans
188 <220> FEATURE:
189 <221> NAME/KEY: misc_feature
190 <222> LOCATION: (4)..(4)
191 <223> OTHER INFORMATION: N stands for any nucleotide.
193 <220> FEATURE:
194 <221> NAME/KEY: misc_feature
195 <222> LOCATION: (9)..(9)
196 <223> OTHER INFORMATION: N stands for any nucleotide.
198 <220> FEATURE:
199 <221> NAME/KEY: misc_feature
200 <222> LOCATION: (21)..(21)
201 <223> OTHER INFORMATION: N stands for any nucleotide.
203 <220> FEATURE:
204 <221> NAME/KEY: misc_feature
205 <222> LOCATION: (23)..(23)
206 <223> OTHER INFORMATION: N stands for any nucleotide.
208 <220> FEATURE:
209 <221> NAME/KEY: misc_feature
210 <222> LOCATION: (29)..(29)
211 <223> OTHER INFORMATION: N stands for any nucleotide.
213 <220> FEATURE:
214 <221> NAME/KEY: misc_feature

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RAW SEQUENCE LISTING

DATE: 03/22/2006

PATENT APPLICATION: US/09/980,845B

TIME: 09:27:50

Input Set : D:\00-505 ST25.txt

Output Set: N:\CRF4\03222006\I980845B.raw

215 <222> LOCATION: (32)..(32)
216 <223> OTHER INFORMATION: N stands for any nucleotide.
218 <220> FEATURE:
219 <221> NAME/KEY: misc_feature
220 <222> LOCATION: (35)..(36)
221 <223> OTHER INFORMATION: N stands for any nucleotide.
223 <220> FEATURE:
224 <221> NAME/KEY: misc_feature
225 <222> LOCATION: (39)..(39)
226 <223> OTHER INFORMATION: N stands for any nucleotide.
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229 <221> NAME/KEY: misc_feature
230 <222> LOCATION: (42)..(42)
231 <223> OTHER INFORMATION: N stands for any nucleotide.
233 <220> FEATURE:
234 <221> NAME/KEY: misc_feature
235 <222> LOCATION: (45)..(45)
236 <223> OTHER INFORMATION: N stands for any nucleotide.
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239 <221> NAME/KEY: misc_feature
240 <222> LOCATION: (49)..(49)
241 <223> OTHER INFORMATION: N stands for any nucleotide.
243 <220> FEATURE:
244 <221> NAME/KEY: misc_feature
245 <222> LOCATION: (52)..(52)
246 <223> OTHER INFORMATION: N stands for any nucleotide.
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249 <221> NAME/KEY: misc_feature
250 <222> LOCATION: (58)..(58)
251 <223> OTHER INFORMATION: N stands for any nucleotide.
253 <220> FEATURE:
254 <221> NAME/KEY: misc_feature
255 <222> LOCATION: (61)..(62)
256 <223> OTHER INFORMATION: N stands for any nucleotide.
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259 <221> NAME/KEY: misc_feature
260 <222> LOCATION: (65)..(65)
261 <223> OTHER INFORMATION: N stands for any nucleotide.
263 <220> FEATURE:
264 <221> NAME/KEY: misc_feature
265 <222> LOCATION: (69)..(69)
266 <223> OTHER INFORMATION: N stands for any nucleotide.
268 <220> FEATURE:
269 <221> NAME/KEY: misc_feature
270 <222> LOCATION: (73)..(73)
271 <223> OTHER INFORMATION: N stands for any nucleotide.
273 <220> FEATURE:
274 <221> NAME/KEY: misc_feature
275 <222> LOCATION: (97)..(97)

RAW SEQUENCE LISTING

DATE: 03/22/2006

PATENT APPLICATION: US/09/980,845B

TIME: 09:27:50

Input Set : D:\00-505 ST25.txt

Output Set: N:\CRF4\03222006\I980845B.raw

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276 <223> OTHER INFORMATION: N stands for any nucleotide.
278 <220> FEATURE:
279 <221> NAME/KEY: misc_feature
280 <222> LOCATION: (102)..(102)
281 <223> OTHER INFORMATION: N stands for any nucleotide.
283 <220> FEATURE:
284 <221> NAME/KEY: misc_feature
285 <222> LOCATION: (138)..(138)
286 <223> OTHER INFORMATION: N stands for any nucleotide.
288 <220> FEATURE:
289 <221> NAME/KEY: misc_feature
290 <222> LOCATION: (457)..(457)
291 <223> OTHER INFORMATION: N stands for any nucleotide.
293 <220> FEATURE:
294 <221> NAME/KEY: misc_feature
295 <222> LOCATION: (459)..(459)
296 <223> OTHER INFORMATION: N stands for any nucleotide.
298 <220> FEATURE:
299 <221> NAME/KEY: misc_feature
300 <222> LOCATION: (467)..(467)
301 <223> OTHER INFORMATION: N stands for any nucleotide.
303 <400> SEQUENCE: 4
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306 nngcnaggng cancagctta cctttgccga cggttcnctg tntgaaagcg ccattcgcaa      120
308 agtgccggtg gaggcggnga aaattcactc acttggtgcg gaaggcaatg atgtgggatt      180
310 gaaagcccat catggcgggt ggataaagcg ttatttttta tgtcggcaga tgcctttcct      240
312 gcgttaaagt cgttattaga cgaaaatttt tcgtatcagg acacagcagt ttacggcgag      300
314 aattttgtgg tttccgcgct gaatgaagat tccgtgtgtg tgggcgatat ttatcaaatc      360
316 ggctcctgcg tgggtggagg gtcgcagccg cgtaaacctt gtgagcgctt atcgaaaaat      420
318 accaataatc cgaacacgca acaaaccgtg tacgctncng ctggtcnggc tggtatgtgc      480
320 cggtggtacc ccaaggggga aattcaa      507
323 <210> SEQ ID NO: 5
324 <211> LENGTH: 1087
325 <212> TYPE: DNA
326 <213> ORGANISM: Actinobacillus actinomycetemcomitans
329 <220> FEATURE:
330 <221> NAME/KEY: misc_feature
331 <222> LOCATION: (622)..(622)
332 <223> OTHER INFORMATION: N stands for any nucleotide.
334 <220> FEATURE:
335 <221> NAME/KEY: misc_feature
336 <222> LOCATION: (642)..(642)
337 <223> OTHER INFORMATION: N stands for any nucleotide.
339 <220> FEATURE:
340 <221> NAME/KEY: misc_feature
341 <222> LOCATION: (661)..(661)
342 <223> OTHER INFORMATION: N stands for any nucleotide.
344 <220> FEATURE:
345 <221> NAME/KEY: misc_feature

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RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/980,845B

DATE: 03/22/2006
TIME: 09:27:51

Input Set : D:\00-505 ST25.txt
Output Set: N:\CRF4\03222006\I980845B.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 566,625,627,636,650,686,661,672,661,720,723
Seq#:3; N Pos. 554,596
Seq#:4; N Pos. 4,8,21,23,29,32,35,36,39,42,45,49,52,58,61,62,65,69,73,97
Seq#:4; N Pos. 100,138,457,459,487
Seq#:5; N Pos. 622,642,661,669,685,690,700
Seq#:6; N Pos. 609,614,651,685
Seq#:7; N Pos. 532,630,696,710,722,725
Seq#:8; N Pos. 538
Seq#:12; N Pos. 131,151,170,178,194,199,209
Seq#:18; Xaa Pos. 43,52,63,72,77

VERIFICATION SUMMARY

DATE: 03/22/2006

PATENT APPLICATION: US/09/980,845B

TIME: 09:27:51

Input Set : D:\00-505 ST25.txt

Output Set: N:\CRF4\03222006\I980845B.raw

L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:102 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:540
M:341 Repeated in SeqNo=1
L:169 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:540
L:304 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0
M:341 Repeated in SeqNo=4
L:385 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:600
M:341 Repeated in SeqNo=5
L:451 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:600
M:341 Repeated in SeqNo=6
L:509 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:480
M:341 Repeated in SeqNo=7
L:550 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:480
L:670 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:120
M:341 Repeated in SeqNo=12
L:869 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:32
M:341 Repeated in SeqNo=18